SanDisk® SSD SATA 5000 2.5"

Fast
Rugged
Power Efficient

Solid State Drive

SanDisk® solid state drive (SSD), field-proven for over a decade in a range of applications and demanding environments, takes flash in computing to new heights.

Using flash enhanced by our extensive IP portfolio, SanDisk SSD SATA 5000 2.5" brings durability, performance and power efficiency to a peak. With unbeatable mean time to failure (MTTF)[2] rates as compared with the hard disk drive, SanDisk SSD 5000 reduces maintenance costs to cut down the total cost of ownership (TCO)[1] of notebooks – particularly critical in the business environment.

Flash is gaining wider endorsement from key industry organizations and standards bodies that are part of a growing ecosystem supporting flash in computing applications. Today, the SSD is effectively replacing the last mechanical part in notebooks, the HDD, to deliver unbeatable durability, system performance and power efficiency as compared with the HDD.

[1] *Calculate your TCO at www.SanDisk.com/TCO*
[2] *MTTF is calculated based on the Parts Stress Method, Telecordia SR-332*
[3] *H2BENCH 3.6; average access time = average seek time + average latency time*
[4] *Stopwatch test performed internally at SanDisk; Dell Latitude D620 notebook (Intel Core Duo Processor T7200, 2.0GHz, 1GB RAM); Microsoft Windows Vista; Microsoft Bootvis; Dell Latitude D620 notebook (Intel Core Duo Processor T7200, 2.0GHz, 1GB RAM); Microsoft Windows XP*

Applications

SanDisk SSD 5000 offers a no-compromise solution for computing platforms, business notebooks, rugged laptops, point of sale (POS) machines, kiosks, telecommunications equipment and blade servers.

Most Durable and Reliable

SanDisk SSD 5000 is built to be rugged and reliable for the long term.

- With no moving parts, SanDisk SSD 5000 can withstand extreme temperature ranges, and conditions of vibration and shock in transit and outdoors.
- SanDisk SSD 5000 improves MTTF[2] rates up to six times as compared with the rotating HDD.
- SanDisk SSD 5000 offers top data reliability and flash endurance due to SanDisk flash management technology, which applies dynamic and static wear-leveling and dynamic bad block management.
- With state-of-the-art flash management algorithms, SanDisk SSD 5000 achieves unlimited read cycles. Advanced EDC/ECC keeps data reliable.

High Performance

Flash memory delivers performance that keeps pace with modern lifestyles. Compared with the HDD:

- SanDisk SSD 5000 speeds up operating system boot and application launch/runtime by up to two times.[3]
- SanDisk SSD 5000 has no seek or latency time. This gives a tremendous boost to average access time.[4]
- SanDisk SSD 5000 maintains fixed performance that does not deteriorate as the media fills up.

SanDisk®

Improved Power Efficiency

Flash memory saves power, keeping notebooks running longer so that users in transit can perform numerous read/write tasks every operating hour. And it conserves energy and space when used inside blade servers to replace HDDs. In a typical working scenario based on the MobileMark® benchmark:

- SanDisk SSD 5000 consumes up to 50 percent less power than the HDD.

Highly Secure

SanDisk SSD 5000 helps to ensure that confidential files remain confidential.

- SanDisk SSD 5000 enables password login.
- SanDisk SSD 5000 supports ATA security features.

Environmentally Friendly

Flash components are attuned to cleaner environment standards.

- Flash is noise-free, enhancing the user experience.
- Flash is RoHS compliant.
- With no moving parts inside, flash is cooler.

Specifications

		SanDisk SSD SATA 5000 2.5"
Interface		SATA I
Capacity (GB)[5]		8, 16, 32, 64
Mechanical Dimensions		Height 9.5 mm (0.003 in), width 69.2 mm (2.724 in), length 98 mm (3.858 in)
Weight		96gr
Performance	Burst[5] Read[5] Write[5] Average access time[6] I/O per second (IOPS) for 4KB transfer size[7]	150MB/s 68MB/s 60MB/s 0.1ms Read: 4800
Power	Read/Write Idle	1.0W 0.4W
Reliability	MTTF	2,000,000 hrs
Temperature	Operating Commercial Enhanced[8] Non-Operating	 0˚C to 70˚C -25˚C to 75˚C -55˚C to 95˚C
Vibration	Operating	16.3gRMS
Shock	Operating	1,500G/0.5msec
Acoustic Noise	Active	None

[5] 1 megabyte (MB) = 1 million bytes. Some capacity not available for data storage. Performance may vary depending upon host device.
[6] H2BENCH 3.6; average access time = average seek time + average latency time
[7] IOMETER 2003.12.16"
[8] Enhanced temperature option is supported with a different part number.

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